PT2060 Monitor

PT2060/98 DISP Display System

User Manual

Installation, Operation, Maintenance

ProvibTech, Inc. 11011 Brooklet Dr., Ste. 360, Houston, TX 77099, USA

Phone: +1-713-830-7601, Fax: +1-281-754-4972, Email: pvt@provibtech.com , Web: www.provibtech.com

 COPY RIGHT PROVIBTECH 2007

Contents

Receiving Inspection and Handling Guide 3
Inspection 3
Handling and Storing Considerations 3
PT2060/98 DISP Display System 4
General Information 4
Specifications 5
Electrical 5
Physical 5
System Operation 6
System Install 6
Hardware 6
Field-wiring Diagram 7
System Installation 10
Software 11
System Operation 16
Troubleshooting/ Frequently asked Questions 17
Maintenance 19
Ordering Information 20

Receiving Inspection and Handling Guide

Inspection

Check the devices for possible damage that may have occurred from improper transport. Damages in transit must be recorded on the transport documents. All claims for damages must be claimed without delay against the shipper and before the installation.

Handling and Storing Considerations

PT2060/98 should be handled with care during unpacking and installation. Damage to PT2060/98 is typically caused by rough handling, shock, or electrostatic discharge (ESD).

Be aware of the following precautions when unpacking and handling PT2060/98.

- ✓ Please pay attention regarding the sharp corners/sides of the touch panel to avoid any of injuries during the installation, transporting and un-installation.

- ✓ All circuit boards and electronic modules associated with this rack contain components which are susceptible to damage caused by electrostatic discharge. It should be necessary to discharge any static electricity from yourself and your clothing before handling the Display System.

PT2060/98 DISP Display System

General Information

ProvibTech's PT2060/98 DISP display system is a powerful touch-panel display loaded with PCM370 for PT2060 vibration Display and Trending software. Please refer to the PCM370 user manual for the software installation.

The PT2060/98 DISP display system connects to the PT2060 system via MODBUS. The PCM370 for PT2060 software will collect, store, analyze and display the machinery status data on a local or a wide area network. PCM 370 for PT2060 software is also used for configuring the following settings/ parameters.

- ✓ ID each channel, and arrange the routing
- ✓ Setup data collection strategy
- ✓ Display machine photo and real-time data and status on top of the photo
- ✓ Real-time bar graph/ status list/ alarm status of each channel
- ✓ Alarm events
- ✓ Trend plot on each channel
- ✓ Touch-panel for easy operation
- ✓ Network to control systems (PLC/DCS or Historian) via Modbus

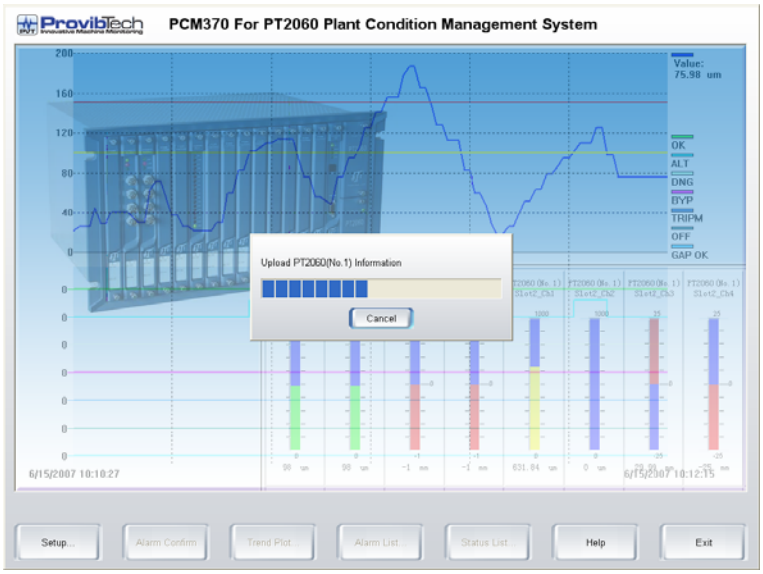

Figure 1

The figure above gives an interface of PCM370 for PT2060 software, for more information of it, please refer to PCM370 for PT2060 software manual.

Specifications

Electrical

Touch Screen PC power supply:

100 - 240 VAC @ 50 ~ 60 Hz, 4 - 2 A

Power Rating: 180W

Physical

Touch panel, color 15″ PC

Dimensions (W x H x D):

Front Panel: 450 x 315.6 x 6 mm

Control Box: 422.4 x 219.4 x 97/112.2 mm

Cut out Dimensions: 428 x 297 mm

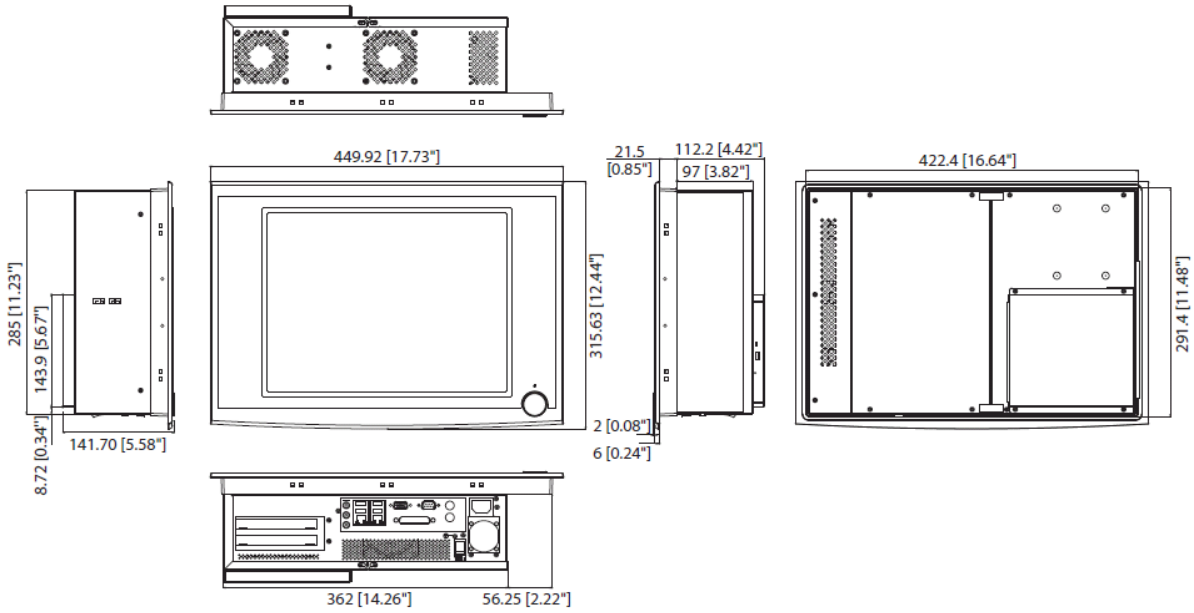

Figure 2

System Operation

System Install

PT2060/98 DISP display system consists of a touch panel with software installed.

Hardware

PT2060/98 touch panel is designed for industrial purpose. It is a 15″ highlight color touch panel.

System Specificaions

- ✓ Intel® Celeron® M 1GHz CPU
- ✓ 1GB RAM, 80G HD
- ✓ 15″LCD,1024*768 screen resolution
- ✓ Support USB 2.0 high performance peripherals
- ✓ Optical Driver： 1 x Slim Type DVD

Front View and I/O View of PT2060/98

Figure 3 Front View

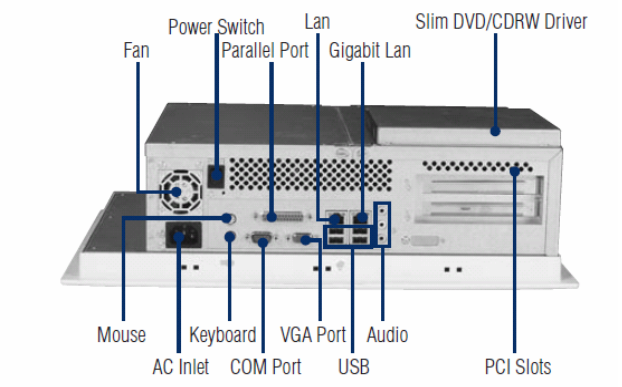

Figure 4 I/O View

Field-wiring Diagram

PT2060/98 touch panel connects with PT2060 system via PT2060/91 or PT2060/96 module only. It provides some interfaces, such as Ethernet and RS232.

There are three examples about connection between PT2060/98 touch panel and PT2060/91 interface Module or PT2060/96 COMM Module.

Connect with PT2060/91 SIM Module via Ethernet

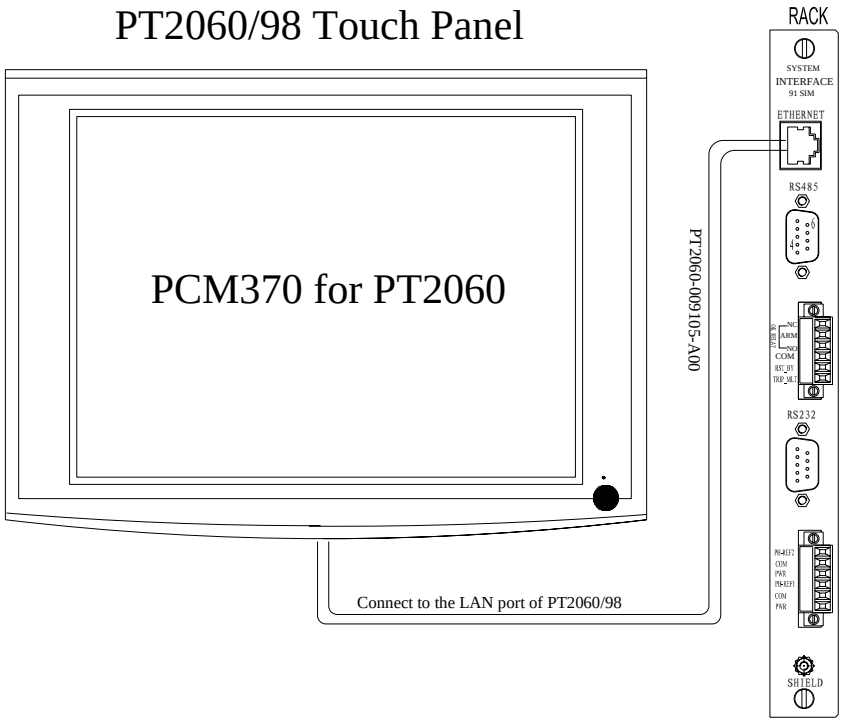

Figure 5

Warning: The cable PT2060-009105-A00 in figure 5 is a ***cross*** Ethernet cable.

Connect with PT2060/96 COMM Module via RS232

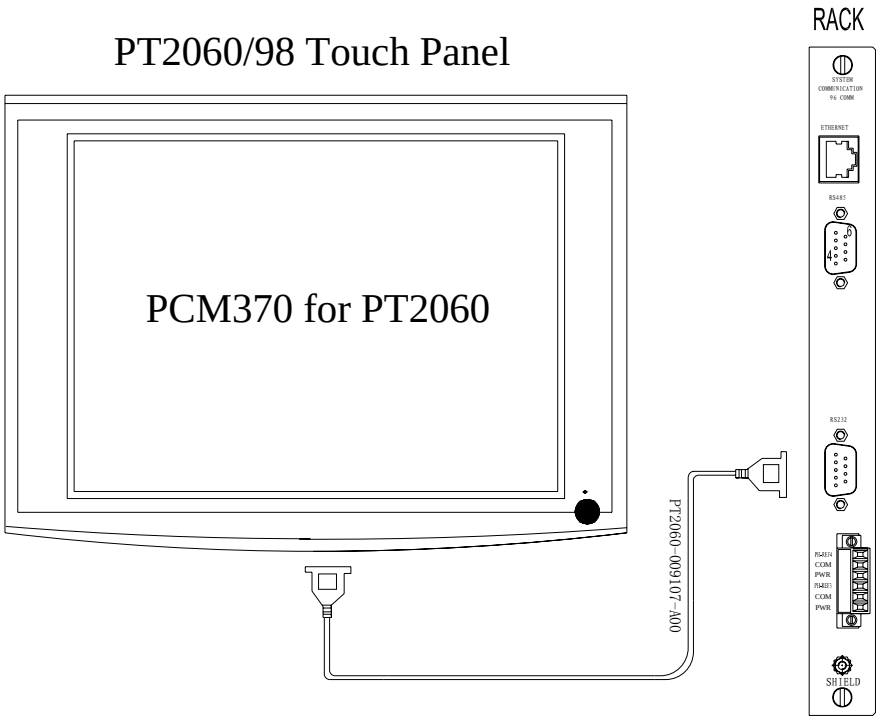

Figure 6

Warning: The cable PT2060-009107-A00 in figure 6 is a ***cross*** RS232 cable.

Connect with multiple PT2060/91 SIM Modules via Switch

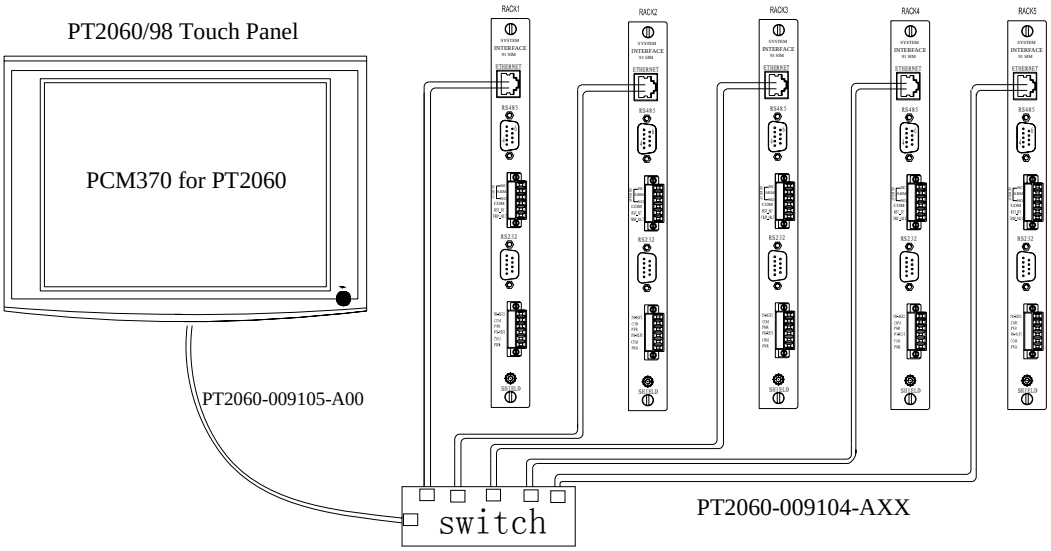

Figure 7

Warning: The cable PT2060-009105-A00 in figure 7 is a cross Ethernet cable, while the cable PT2060-009104 is a parallel Ethernet cable.

System Installation

PT2060/98 can be installed in industrial case. The cut out dimension of the case is 428*297(mm) . Push PT2060/98 into the case with the control box toward the case. Then fasten them with accessories.

Software

The touch panel is a complete PC, and hence can't operate without operating system software. So system software must be installed first. For interfacing to the PT2060 rack, PCM370 for PT2060 software must be installed too.

System Install

You can select Windows XP English version operation system.
Power on the touch panel and Insert the system disk into DVD driver, and start installation according to on line guide that appears on the screen.

PT2060/98 touch panel supports keyboard and mouse peripherals. So depending on your requirement you can install these attachments or can operate from virtual keyboard on the panel, the installation process for the software is same as is done for a standard desktop computer.

Driver Install

Touch screen driver is necessary for touch function.
When you order PT2060/98 touch panel, the driver software will be provided. There is a CD-ROM with utilities and drivers. Please install the Chipset INF driver, VGA graphics driver, LAN driver, audio driver, Touch Screen driver , Watchdog Timer (WDT) driver sequentially.

Touch screen coordinate calibration

Upon rebooting, PT2060/98 automatically finds the new PenMount controller board. The touch screen is connected but not calibrated. Follow the procedures below to carry out calibration.
Open the touch screen control panel from the directory "start" →"program" → "PenMount universal Driver" →"PenMount control Panel" or.click the PenMount Monitor icon "PM" in the menu bar
Please select a device then click "Configure" . Double click the device is also OK.

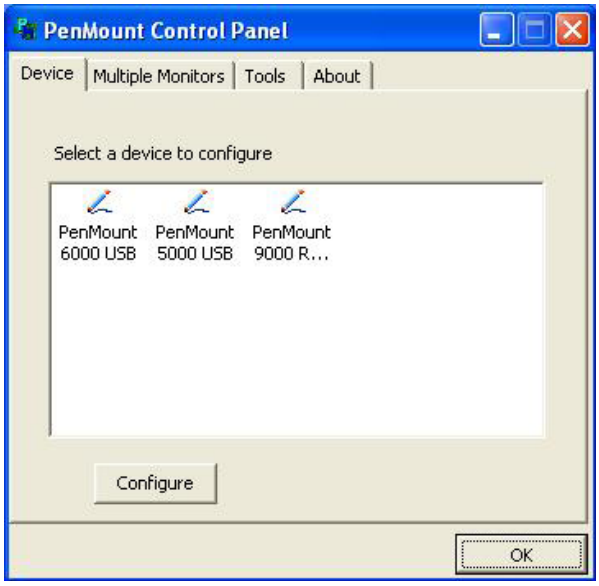

Figure 8

Click “Standard Calibration” to start calibration procedure,

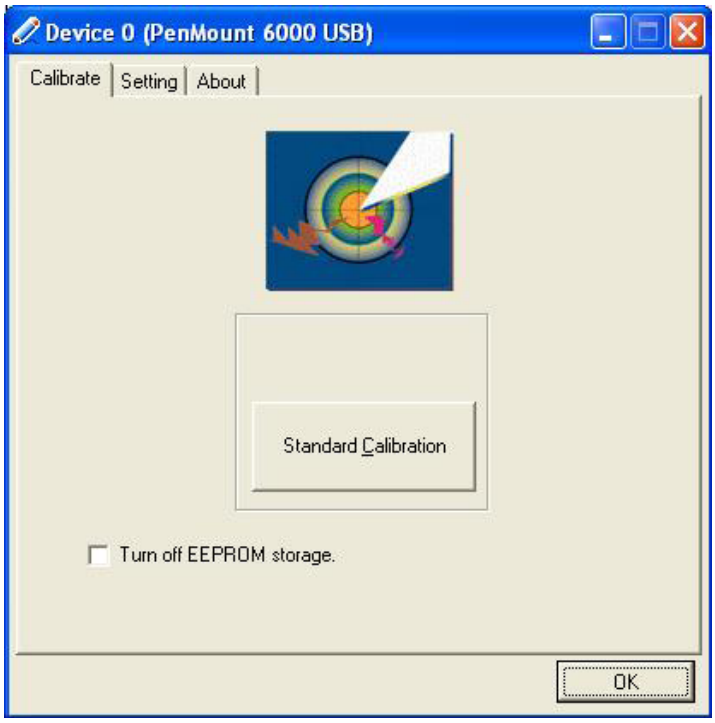

Figure 9

Then touch the five red points to finish calibration as the following figure shows.

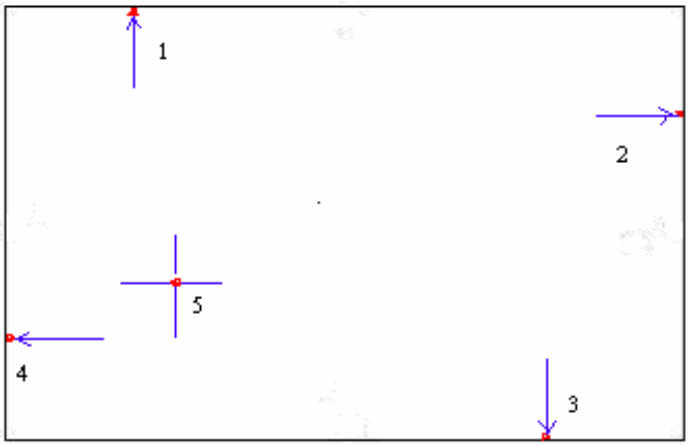

Figure 10

PCM370 for PT2060 Software Install

When Windows XP system has been installed in touch panel, PCM370 for PT2060 software can be installed. Put the installation CD into CD-driver, supposing that the CD-driver is G and then double-click file of Setup.exe in directory of G:\ to start this installation program. Some dialogs will guide you to install this software step by step.

1. Show welcome information. Click Next to continue.

PCM370ForPT2060 Setup
Welcome to the InstallShield Wizard for PCM370ForPT2060
The InstallShield? Wizard will install PCM370ForPT2060 on your computer. To continue, click Next.
< Back
Next >
Cancel

Figure 11

2. Choose destination location and then click Next to continue.

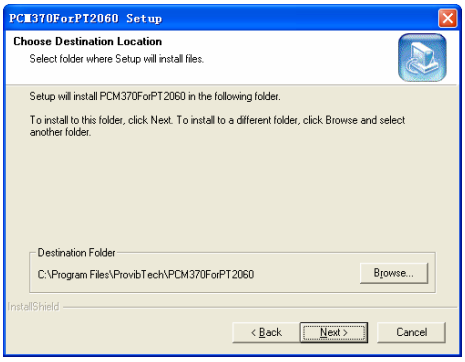
PCM370ForPT2060 Setup
Choose Destination Location
Select folder where Setup will install files.
Setup will install PCM370ForPT2060 in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\ProvibTech\PCM370ForPT2060
Browse...
InstallShield
< Back
Next >
Cancel

Figure 12

3. Click Next to start copying files.

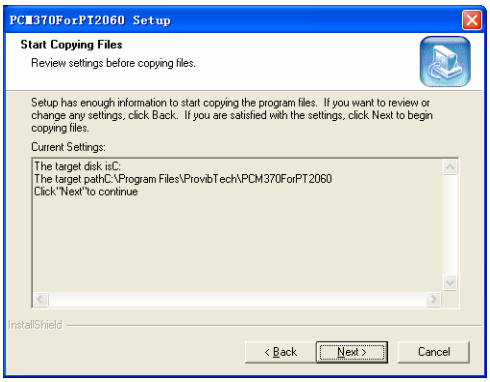
PCM370ForPT2060 Setup
Start Copying Files
Review settings before copying files.
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Current Settings:
The target disk is:C:
The target path:C:\Program Files\ProvibTech\PCM370ForPT2060
Click"Next"to continue
InstallShield
< Back
Next >
Cancel

Figure 13

4. If you see Locked File Detected window, please mark the check box: Don't display this message again.

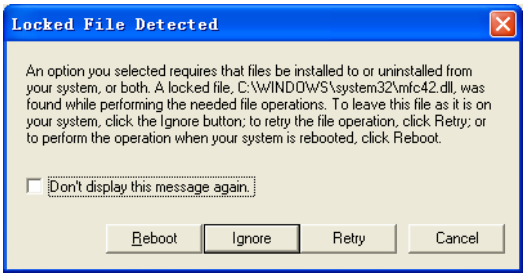
Locked File Detected
An option you selected requires that files be installed to or uninstalled from your system, or both. A locked file, C:\WINDOWS\system32\mfc42.dll, was found while performing the needed file operations. To leave this file as it is on your system, click the Ignore button; to retry the file operation, click Retry; or to perform the operation when your system is rebooted, click Reboot.
Don't display this message again.
Reboot
Ignore
Retry
Cancel

Figure 14

5. Click Next until the installation finished. Select whether to restart your computer now.

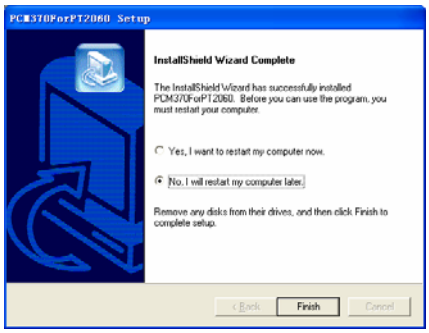
PCM370ForPT2060 Setup
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed PCM370ForPT2060. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
Back
Finish
Cancel

Figure 15

Before running this software, please be sure that:

PCM370 software can support only one kind serial communication, the related parameters as follows:

- ✓ Baud Rate: 19200bps
- ✓ Stop Bit: 2bit
- ✓ Parity Bit: None

So, to make sure the reliable communication, the communication parameters of PT2060-91/96 module should be set correctly.

For more information about PCM370 installation, please refer to PCM370 user manual.

On-Screen Keyboard Driver Install

PT2060/98 touch panel supports keyboard and mouse peripherals, but on-screen keyboard is available and can be used for all functionality usually.

Search and open the file called *PCM370ForPT2060*, you will find *osk.exe* file icon. Select it, and click right button of mouse to find the shortcut key on desktop.

You can treat it as keyboard.

Screen keyboard

Screen keyboard also can help user to modify information. Follow the following methods to start screen keyboard:

1. Click the screen keyboard icon in the quick start column, the first icon counting from the right side in the following figure.

Figure 16

2. Click“ START” → “Programs” →“accessories” → “Accessibility” → “On-screen Keyboard”.

Other Software

You maybe need other software.

For example, PT2060/98 touch panel has USB interface, if you use a USB-RS232 converter to connect with

PT2060—91/96 module, its driver must be installed first.

System Operation

PT2060/98 Touch Panel Operation

All operations software system can be done by touching the screen. Soft tip material only should be used on the screen; any metallic pointers must be avoided to come in contact with the screen.

There is a list of basic operation instruction.

Operation by mouse	Operation by touching screen
Left click	Touch screen quickly
Double click	Touch screen twice quickly
Right click	Touch screen, and keep in contact for more than 3 seconds
Select all	Touch the beginning position, and drag the stylus on the screen to the end position

PCM370 for PT2060 Operation

More detail operation information of PCM370 for PT2060 is recorded in PCM370 for PT2060 user manual, please refer to it.

Troubleshooting/ Frequently asked Questions

The following questions are possible situations that may arise during the use of your computer and each is followed by simple answers and solutions to the situation.

Q: I can't power on the touch panel?

A: Check the following:

- ✓ The power wire is broken.
- ✓ The power module of touch panel is broken.

Q: The rack can not communicate with display?

A: There are some reasons.

- ✓ The communication cable isn't connected correctly.
- ✓ If you use some converters between PT2060/98 DISP system and PT2060 monitor system, the driver is needed usually.
- ✓ The parameters of communication are wrong. Reset them.
  Note: For detail information, please refer to PCM370 user manual.

Q: Nothing appears on the screen?

A: Your PT2060/98 touch panel's power management function automatically blanks the screen to save power. Press any key to turn the display back on.

If you press a key, but it dose not work, restart your panel system.
If you restart your panel system, but it still does not work, contact your dealer or the technical support center for assistance.

Q: Touch the button on the panel, but no response?

A: You must ensure your operation is right at first. For more operation information of PCM370, please refer to its user manual.

If the operation is right, but still there is no response restart your panel system.
If you restart your panel system, but it also does not work, contact your dealer or the technical support center for assistance.

Q: System can't read hard disk, CD or DVD information?

A: Check the following:

- ✓ Make sure that you are using the correct type of media.
- ✓ Check if the CD or DVD is clean and not scratched.
- ✓ Check your drive by using a good media. If your touch panel can not read the information on good media, there may be a problem with driver. Contact your dealer or technical support center for assistance.

Q: System cannot write hard disk or disc?

A: Make sure the media is not write-protected.

Maintenance

Please read the important instructions listed in this section. Following these instructions will help you maximize the durability of your PT2060/98 DISP system.

Important Tips

- ✓ Do not expose the touch panel to direct sunlight. Do not place it near sources of heat.
- ✓ Do not subject the touch panel to magnetic fields.
- ✓ Do not expose the touch panel to rain or moisture.
- ✓ Do not spill water on the touch panel.
- ✓ Do not subject the touch panel to heavy shock or vibration.
- ✓ Do not expose the touch panel to dust and dirt.
- ✓ Never place the system on uneven surfaces.
- ✓ Do not step on the power cord or place heavy objects on top of it.
- ✓ When unplugging the power cord, do not pull on the cord itself but pull on the plug.

When to Contact Service

If the touch panel was damaged.
If liquid has been spilled into the touch panel.
If the touch panel is not operating normally.

Asking for Technical Assistance

For technical assistance, contact your local dealer or distributor.

Ordering Information

Note: Only work with PT2060/91 or PT2060/96 module.

PT2060/98-BX

BX: Touch panel with PCM370 for PT2060 software

B0: No touch panel (only include PCM370 for PT2060 software)

B1: IPPC-6152A-ROAE 15″ Touch panel with 100 – 240 VAC power (include two power cables, a RS232 cross cable PT2060-009107 and a cross Ethernet cable PT2060-009105)

Optional Accessories

PT2060-009800: HP dvd1040e external DVD writer.

PT2060-009801: Windows XP English version.